

AR100 VL-1S



Spare parts manual

Valid from machine number:
100002125

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ORDERING OF SPARE PARTS:

Sales of spare parts for our mixers, are handled in our sales and service department. When ordering spare parts, the following information must be provided:

1. **Type of machine.**
2. **Number of the machine.**
3. **Article number of the spare part in question. (Order no.)**
4. **Method of conveyance.**

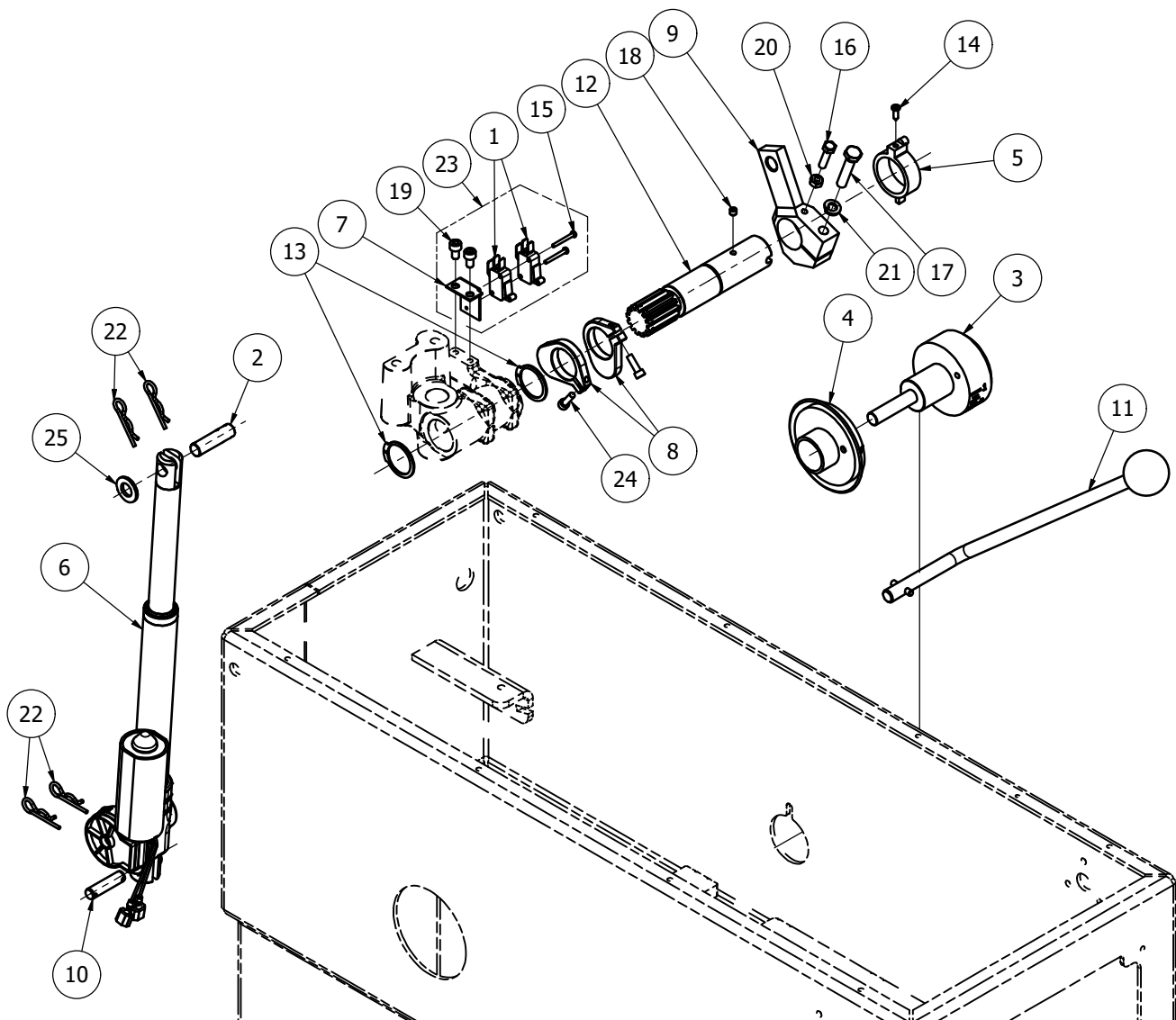
If one of the above pieces of information is missing, please contact our sales and service department before placing the order, as then we can assist you in finding the correct article number (**order no.**) of the spare part in question.

A few spare parts are not sold alone, in such cases reference is made at the pos.number to the assembly number to be used for ordering. The assembly numbers are shown on the relevant pages.

Returning of spare parts is only allowed when agreed with:

Varimixer A/S

FIG NO.	ORDER NO.	DESCRIPTION
1	56SN20-30	Microswitch
2	AR31-519.4	Pin
3	AR60-318.1M	Cap with scale
4	AR30-47.10	Disc with arrow
5	AR30-47.11	Clamp, speed indicator
6	AR30-517	Actuator
7	AR61-520.11	Bracket, limit switch
8	AR31-520.3	Limit switch, cam washer
9	AR60-543E	Servo arm
10	AR81-86.41	Pin
11	R20-47.1M	Speed selector lever
12	R60E-47.1	Change over shaft
13	STA3414	Circlip
14	STA5247	Screw
15	STA5254	Self tapping Screw
16	STA5434	Screw
17	STA5436	Screw
18	STA5607	Screw
19	STA5619	Screw
20	STA5819	Nut
21	STA6056	Lock washer
22	STA6205	Cotter pin
23	AR61-520.11M	Limit switch, assembly
24	STA5712	Screw
25	STA6011	Washer

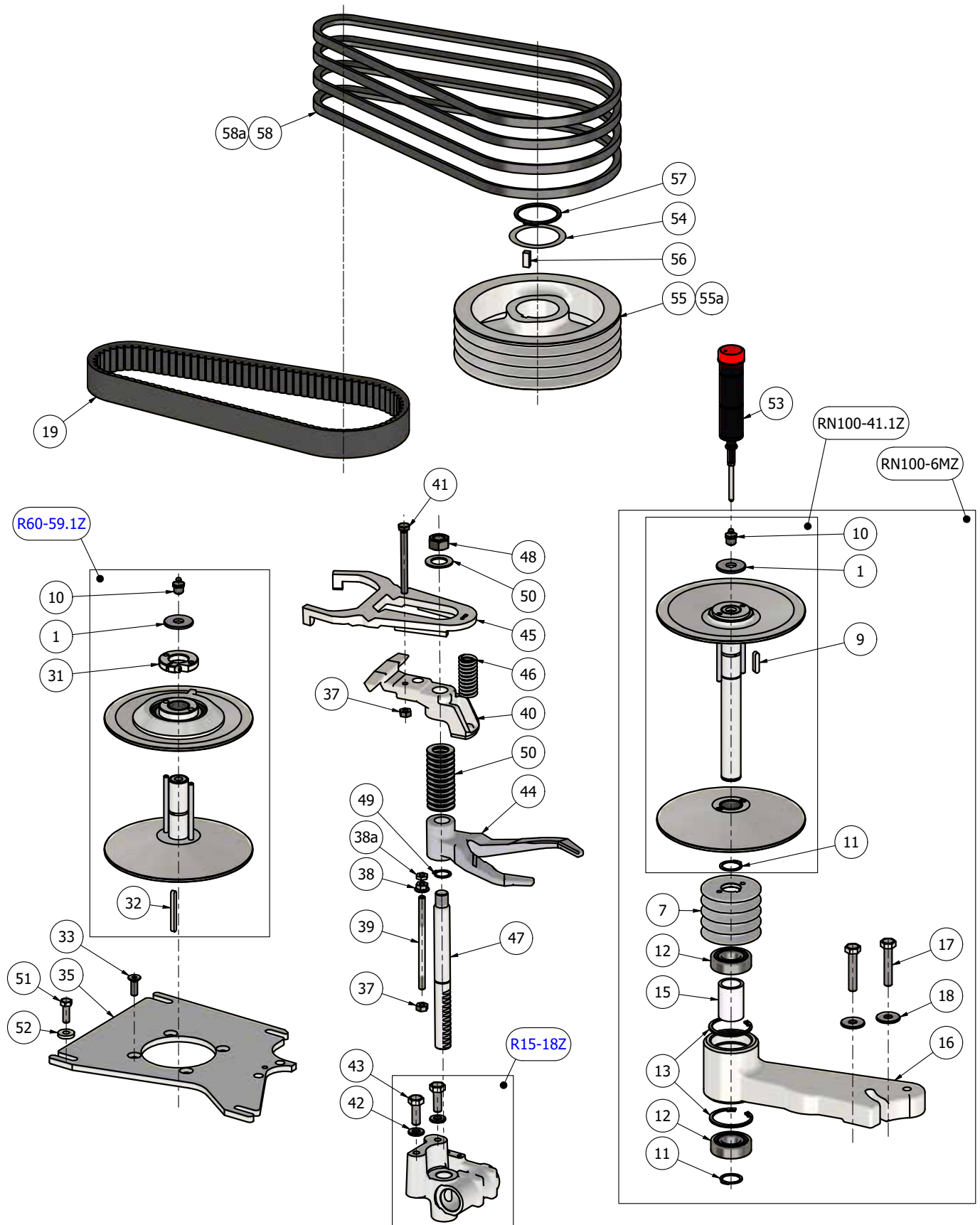


TRANSMISSION

FIG NO.	ORDER NO.	DESCRIPTION
1	STA6018	Washer
7	RN100-128	Pulley small
9	STA2024	Feather Key
10	STA3220	Grease nipple
11	STA3410	Circlip
12	6205 2RS	Ball bearing
13	STA3514	Circlip
15	RN100-143	Distance bushing
16	RN100-6	Bearing arm
17	STA5348	Hex cap screw
18	STA6033	Washer
19	R60-91	V-belt
31	R27-227Z	Clamping ring
32	STA2011	Feather Key
33	STA5018	countersunk head screw
35	R60-61.1E	Base for motor
36	R15-18Z	Bearing bracket
37	STA5810	Hex Nut
38	STA5895	Hex flange nut
38a	STA5812	Hex Nut
39	AR81-305	Stud bolt
40	R20-26.1	Support bracket for belt
41	STA5446	Hex cap screw
42	STA6026	Washer
43	STA5345	Hex cap screw
44	R27-16	Fork for belt tightener, lower
45	R20-19	Fork for belt tightener
46	W40P-275	Compression spring
47	R15-46Z	Toothed rack shaft
48	STA5815	Hex Nut
49	STA3407	Circlip
50	STA6040	Washer
51	STA5433	Hex cap screw
52	STA6034	Washer
53	R15-142-USPUL	Grease gun
54	STA6048	Washer
55	*1) .. RN100-129	Belt pulley
55a	*2) .. RN100-129A	
56	STA2030	Feather Key
57	STA3419	Circlip
58	*1) .. RN100-90Z	V-belt
58a	*2) .. RN100-90.1Z	

..... *1) .. 50 Hz power supply

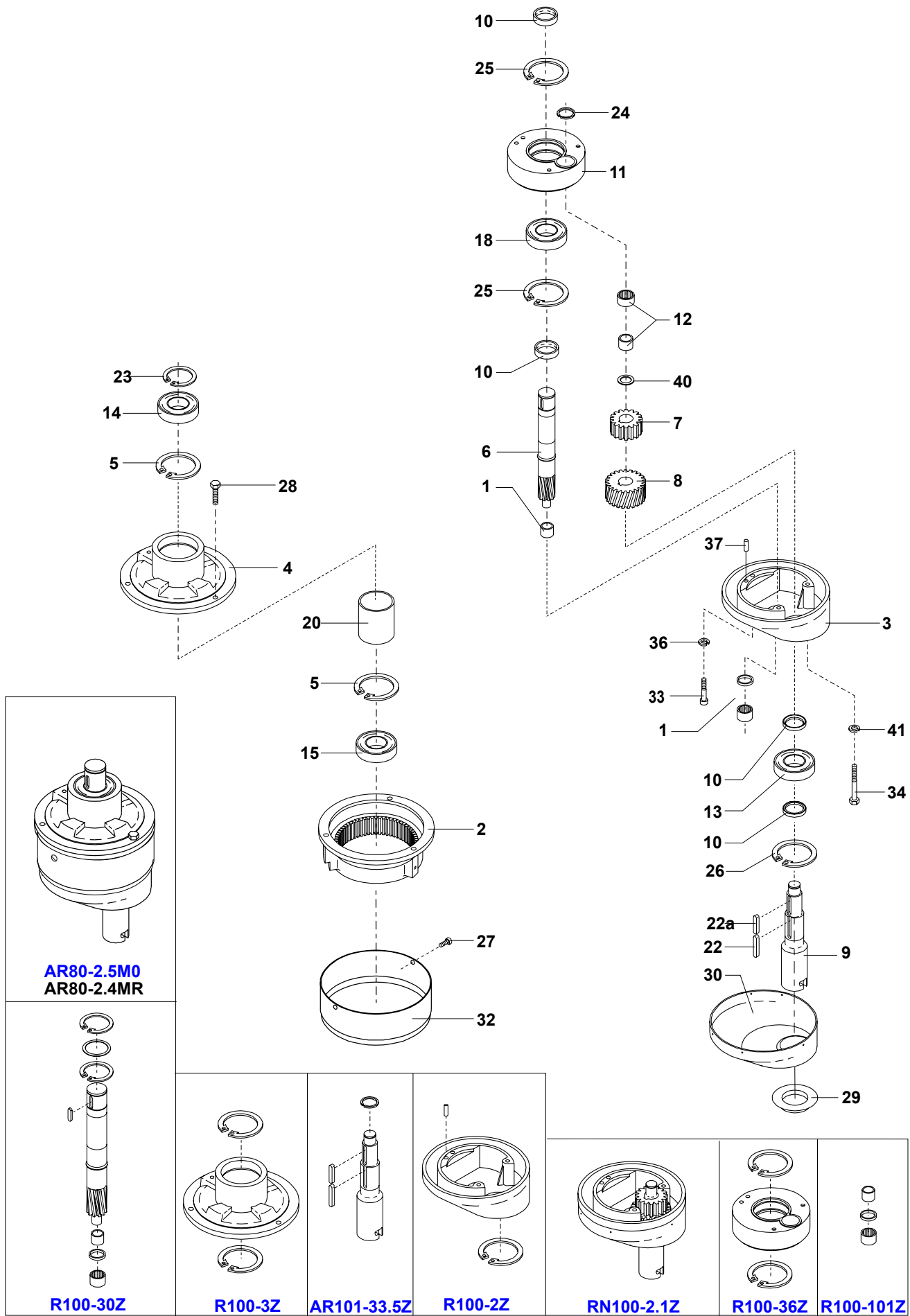
..... *2) .. 60 Hz power supply



- R60-59.1Z** Motor pulley, assembly
RN100-6MZ Pulley bearing arm, assembly
RN100-41.1Z Pulley assembly
R15-18Z Bearing bracket, assembly

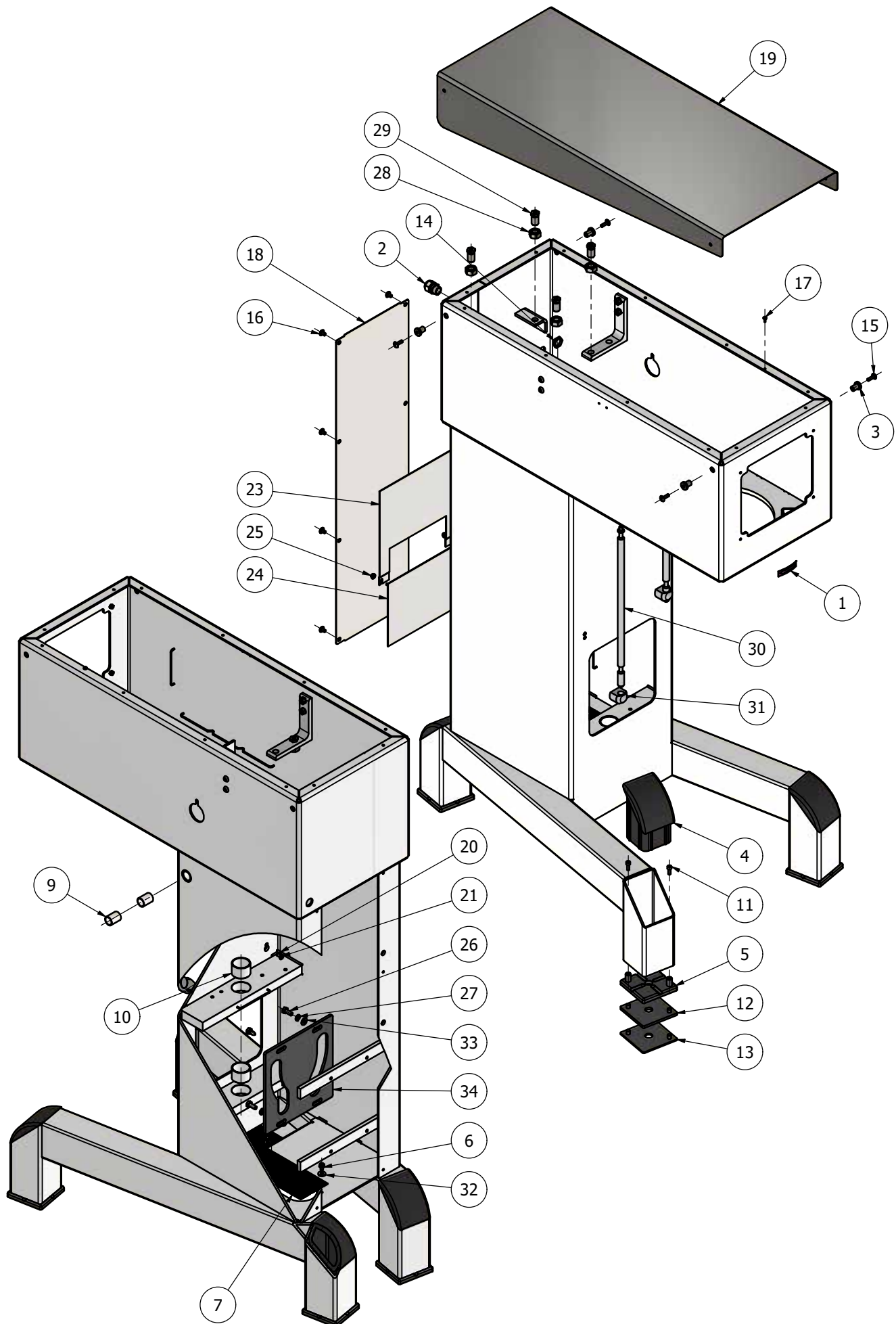
PLANETARY HEAD

FIG NO.	ORDER NO.	DESCRIPTION
.....	*1) .. AR80-2.5M0.....	Planetary head, assembly
.....	*3) .. AR80-2.4MR.....	
.....		
1	R100-101Z.....	Needle bearing, kit
2	*1) .. R100-1	Gear wheel rim
.....	*3) .. R100-1M5.....	
3	*1) .. R100-2Z.....	Eccentric head, kit
.....	*3) .. R100-2M5.....	
4	*1) .. R100-3Z.....	Main bearing, kit
.....	*3) .. R100-3M5.....	
5	STA3532	Circlip
6	R100-30	Main shaft
7	AR140-31	Rim pinion
8	R100-32.1	Rim pinion, lower
9	AR101-33.5.....	Bayonet shaft
10	R100-37	Distance piece
11	R100-36.....	Eccentric disc
12	R100-96.....	Needle bearing
13	R100-97	Ball bearing
14	R100-98	Ball bearing
15	R100-99	Ball bearing
18	R100-100	Ball bearing
20	R100-141	Distance tube
22	STA2039	Feather Key
22a	STA2034	Feather Key
23	STA3419	Circlip
24	STA3478	Circlip
25	STA3530	Circlip
27	*1) .. STA5263	Screw
.....	*3) .. STA9003	
28	STA5333	Screw
29	R100-209	Seal ring
30	W100-272	Cap, planetary head
32	AR80-162H	Plastic cap
33	STA5644	Screw
34	STA5652	Screw
36	STA6057	Lock washer
37	STA6460	Grooved pin
40	R100-235	Washer
41	STA6029	Washer
.....		
.....	*1) .. Standard version.....	
.....	*3) .. Stainless steel frame version	
.....		
.....	R100-30Z	Main shaft, kit
*1).....	R100-3Z	Main bearing, kit
.....	AR101-33.5Z.....	Bayonet shaft, kit
*1).....	R100-2Z	Eccentric head, kit
*1).....	RN100-2.1Z	Eccentric head mounted
.....	R100-36Z	Eccentric disc, kit
.....	R100-101Z	Needle bearing, kit



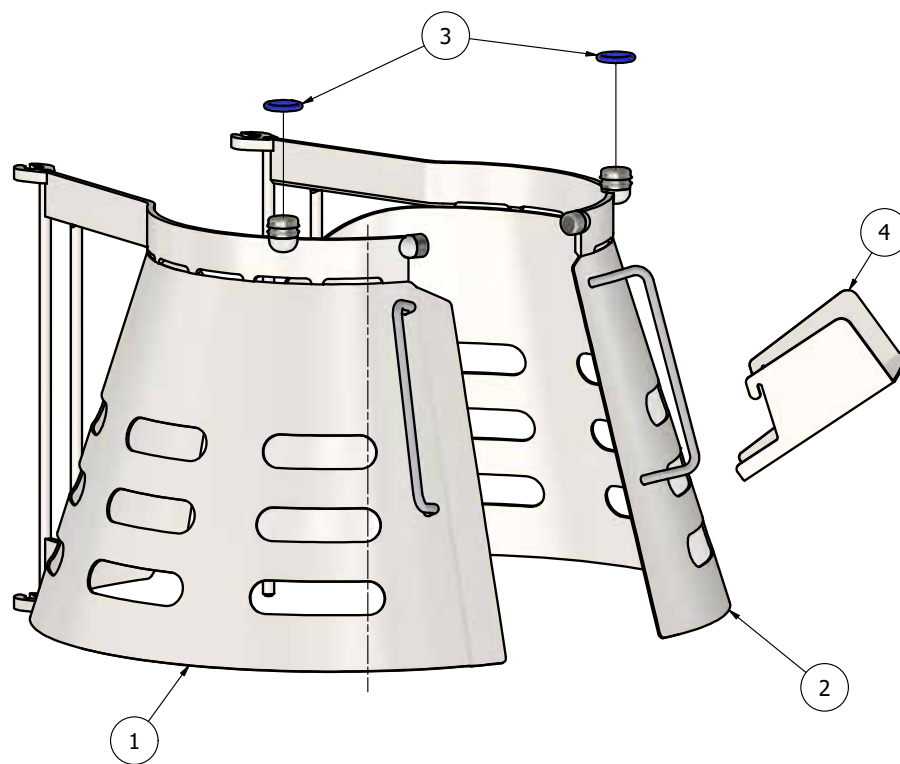
MACHINE COLUMN

FIG NO.	ORDER NO.	DESCRIPTION
1	R15-245	Arrow sign
2	STA3002	Cable gland
3	STA6580	Threaded bushing
4	AR80-212	Blanking plug
5	AR80-213	Base plate
6	STA5045	Screw
7	AR31-22.180	Grate
9	STA2515	Bearing bushing
10	STA2526	Bearing bushing
11	STA5615	Socket head screw
12	AR80-214.6	Adjustment plate, 3mm
13	AR80-214.3	Adjustment plate, 6mm
14	STA3014	Cable gland nut
15	STA5017	Screw
16	STA5080	Screw
17	STA5232	Self tapping Screw
18	AR101-22.17R	Cover plate
19	AR101P-21	Top cover
20	STA5724	Set screw
21	STA5624	Countersunk head screw
23	AR81-270	Cover plate, upper
24	AR81-271	Cover plate, lower
25	STA5897	Hex flange nut
26	STA5322	Hex cap screw
27	STA6056	Lock washer
28	STA5815	Hex nut
29	R20-148	Threaded bushing
30	56AE140-25	Shaft for Safety guard
31	56AR101P-25.1	Bracket for Safety guard
32	STA6165	Washer
33	STA6020	Washer
34	AR81-71	Guide plate for bowl arms



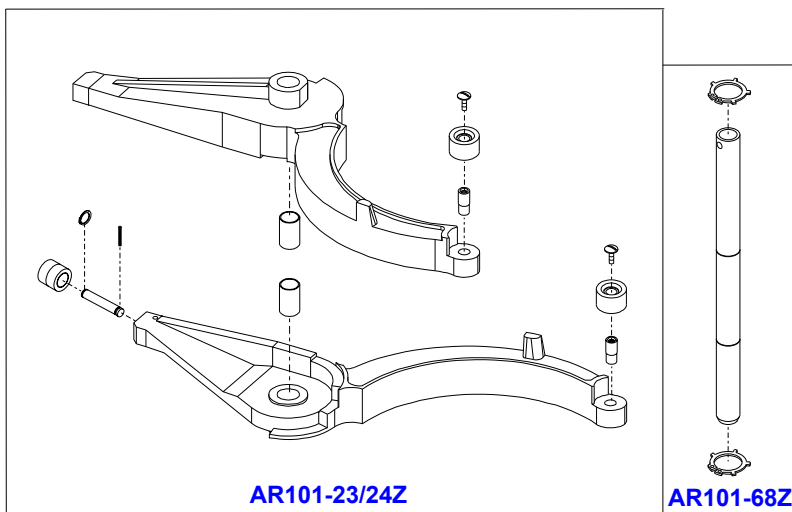
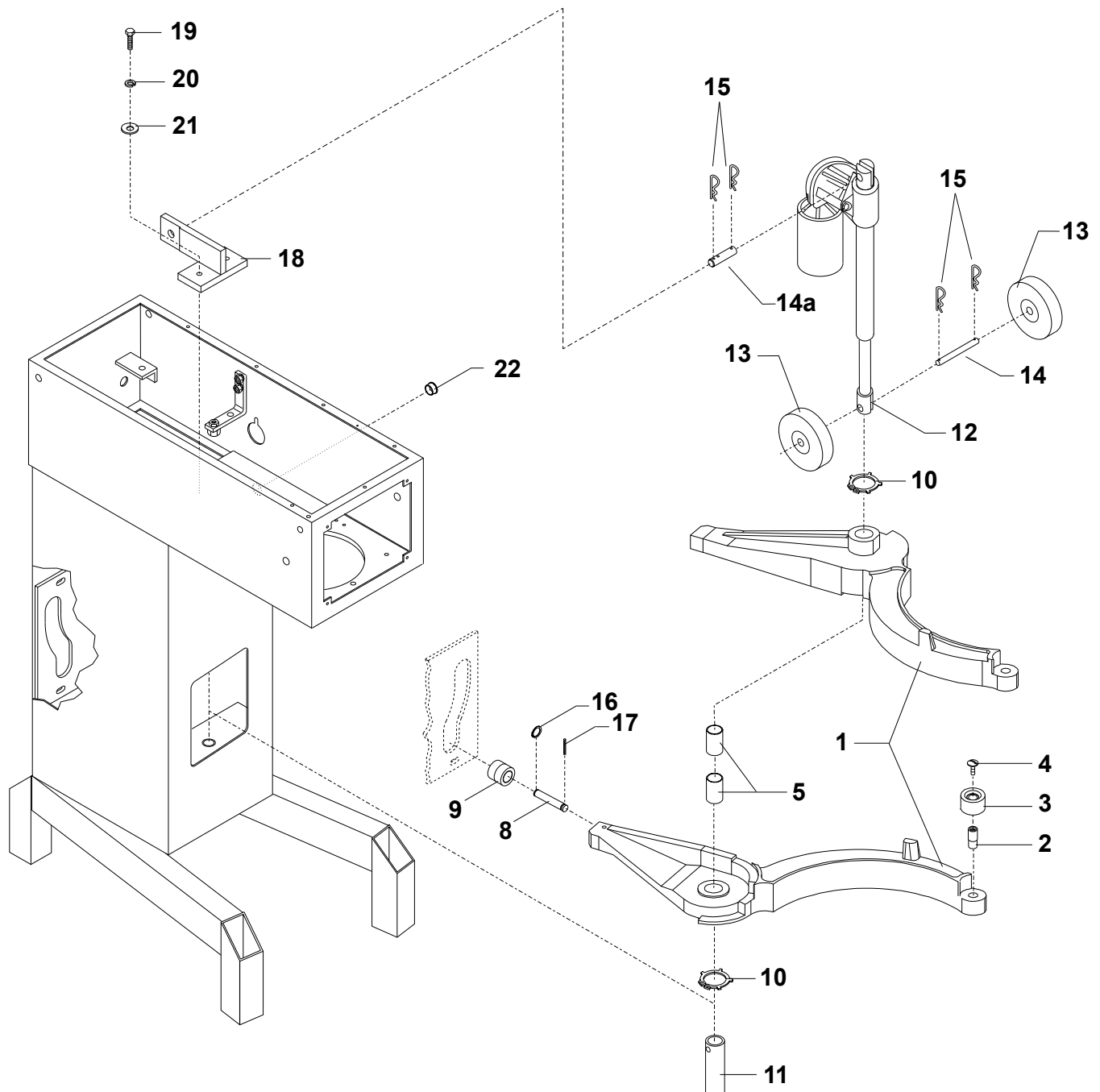
SAFETY GUARD

FIG NO.	ORDER NO.	DESCRIPTION
1	35AR101-21.3M...	Safety guard left
2	35AR101-22.3M...	Safety guard right
3	STA3149	O-ring
4	56CE101-280.....	Filling tray



LIFTING SYSTEM

FIG NO.	ORDER NO.	DESCRIPTION
1	AR101-23/24Z	Bowl arm set, colour black
2	AR31-127	Roller shaft
3	AR31-128	roll for bowl clamping
4	STA5088	Screw
5	STA2526	Bearing bushing
8	AR81-71.10	Shaft for bowl arm guide
9	AR81-71.5M	Bush for bowl arm guide, mount
10	STA3462	Circlip
11	AR101-68Z	Bowl arm, guide rod
12	AR30-86.2B	Lifting motor
13	RN100-66	Guide for lifting motor
14	RN100-67	shaft
14a	AR80-86.41	Shaft
15	STA6005	Distance bushing
16	STA3408	Circlip
17	STA6381	Pin
18	AR101-86.40	Fitting for lifting motor
19	STA5322	Screw
20	STA6020	Washer
21	STA6056	Spring lock washer
22	STA6517	Blanking plug



.....Identification of motor, see page 18.

31 ..Drive unit, cable included

.....Motor **R100-85.1**, 2,9 kW, 3x400V50Hz / 3x480V/60Hz

.....07080-2930

.....Motor **R100-85.52**, 3 kW, 3x200V/50Hz / 3x208V/60Hz

.....07080-3030

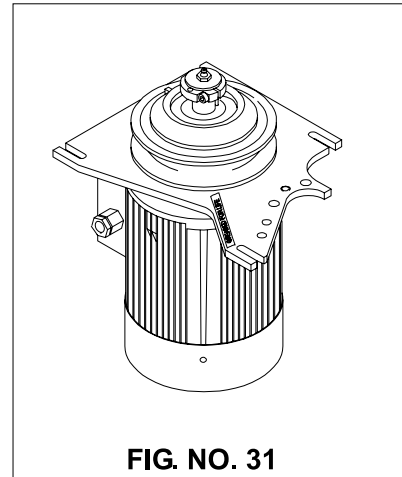


FIG. NO. 31

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MICROSWITCHES

FIG NO.	ORDER NO.	DESCRIPTION
1	56CR10-111M	Safety Switch
2	STA5320	Hex cap screw
3	STA5837	Lock Nut
4	STA5721	Hex cap screw
5	AR31-53	Bracket for switch
6	STA5253	Screw
7	AR61-522	Microswitch
8	STA5045	Hex Cap screw
9	AR81-53.01	Angle fitting
10	STA6008	Washer
11	STA5435	Hex cap screw
12	AR30-194.41M	Lifting signal cable
	AR61-53.61M	Lifting contacts assembly

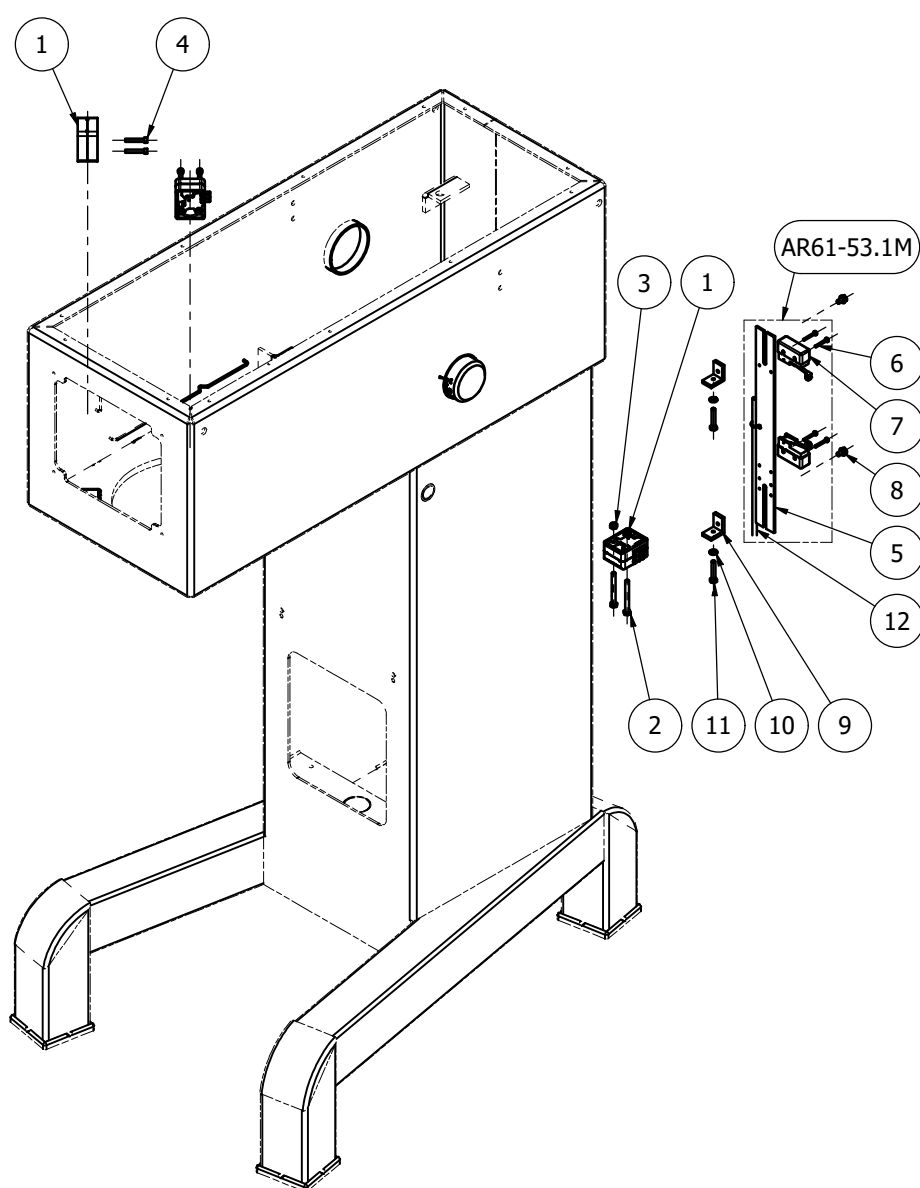
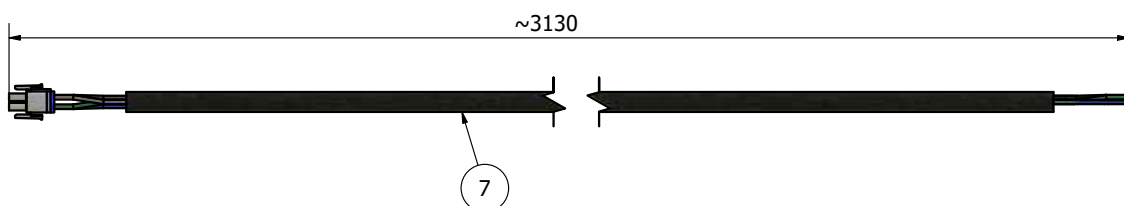
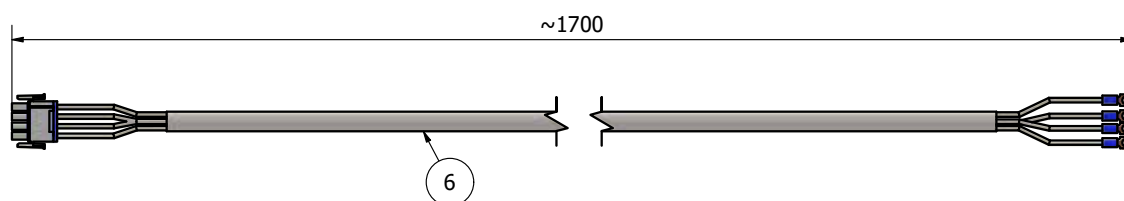
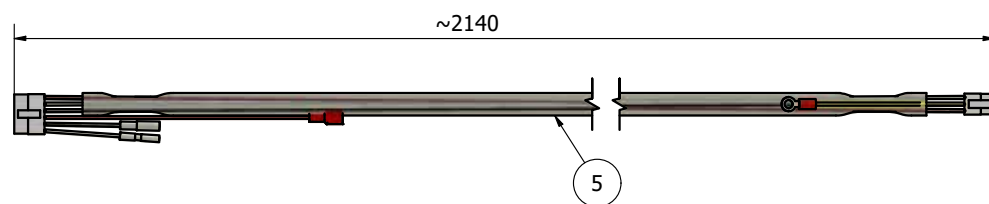
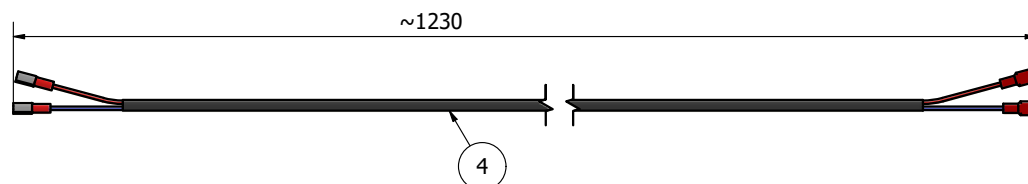
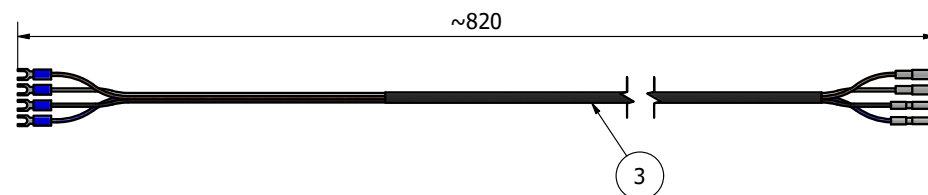
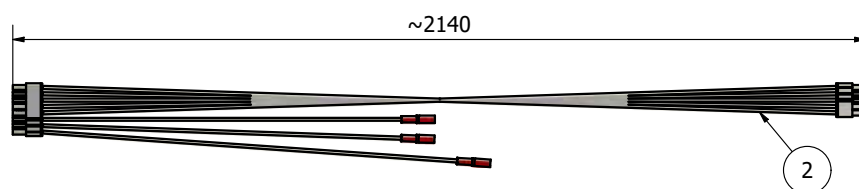
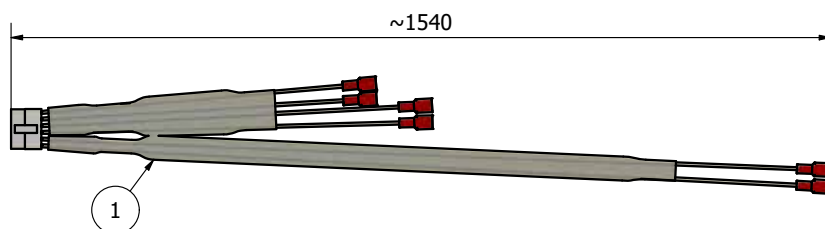


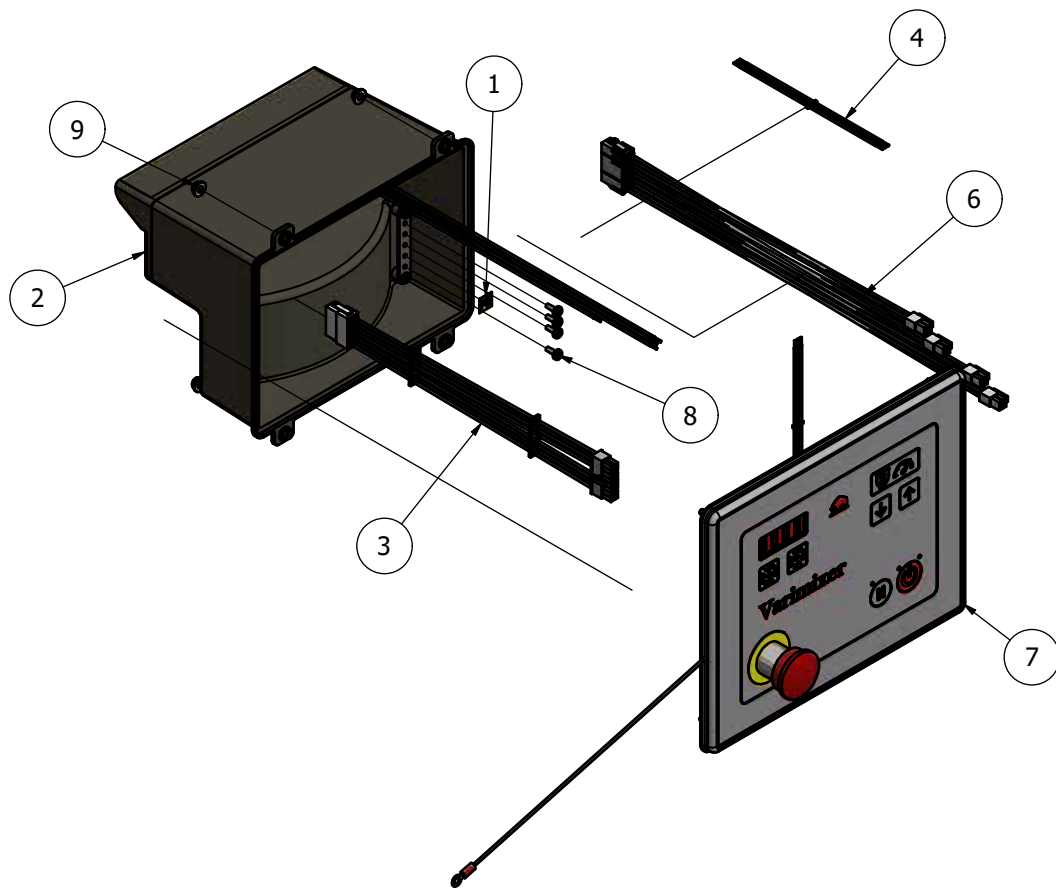
FIG NO.	ORDER NO.	DESCRIPTION
1	AR31-194.19M	Cable, safety switches
2	AR31-194.90M	Signal cable
3	AR30-194.41M	Lifting signal cable
4	AR31-194.23M	Actuator cable
5	AR31-194.87M	Supply cable
6	AR31-194.62M	Motor supply cable
7	AR31-194.59M	Power supply cable, with neutral
.....	AR31-194.65M	Power supply cable, without neutral



ELECTRIC COMPONENTS

FIG NO.	ORDER NO.	DESCRIPTION
1	AR30-453.1.....	Physical earth label
2	AR31-152.2M.....	Enclosure assembly
3	AR31-194.18M.....	Safety cable
4	AR31-194.82M	Supply cable
5	AR31-194.88M.....	Supply cable
6	AR31-194.91M.....	Signal cable
7	AR31-530.16M	Front panel assembly
8	STA5232	Self tapping Screw
9	STA5897	Hex flange nut

Frequency	Voltage	Motor	Power	Current	Connection	Contactor,	Thermal Overload Relay	Overload relay
[Hz]	[V]	[Item no.]	[kW]	[A]		[fig.22]	[fig.23]	setting [fig.23a] [A]
50	3x230	R100-85.1	2,9	13	Δ	AR31-88.104 +AR31-88.146	AR31-88.206	16
	3x380-415			7,5	Y		AR31-88.204	9
60	3x480			6,5		AR31-88.115 +AR31-88.146		8
	3x208	3	13	Δ	AR31-88.206		16	



FRONT PANEL ASSEMBLY

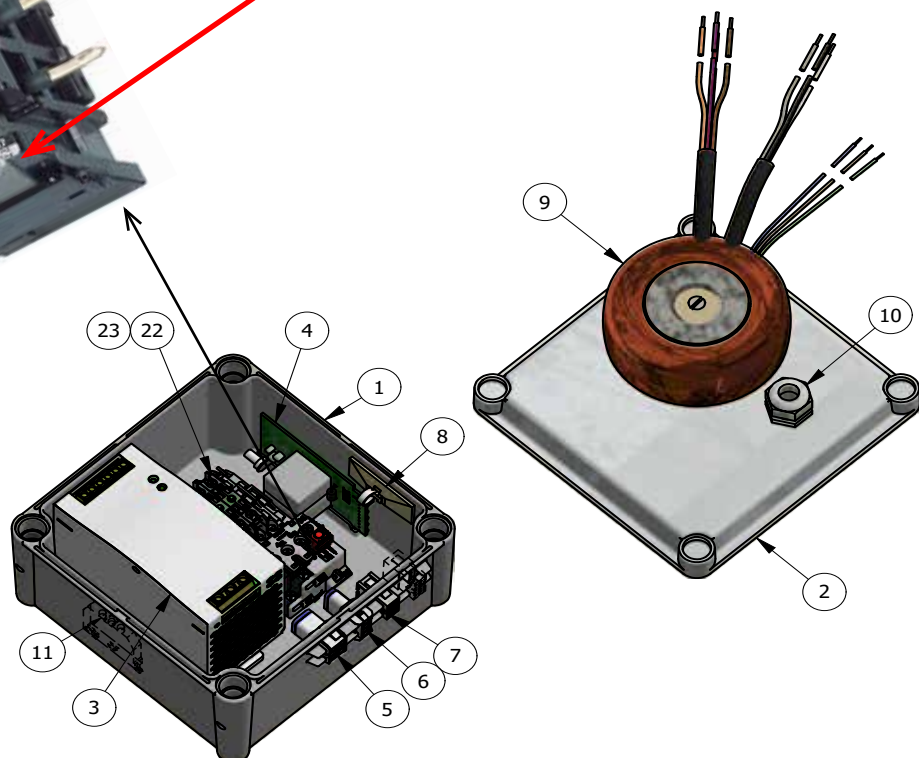
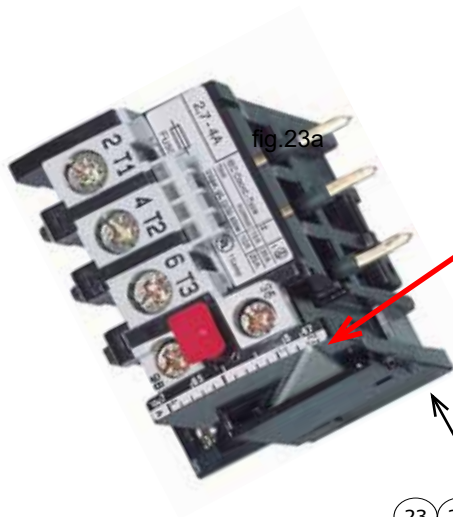
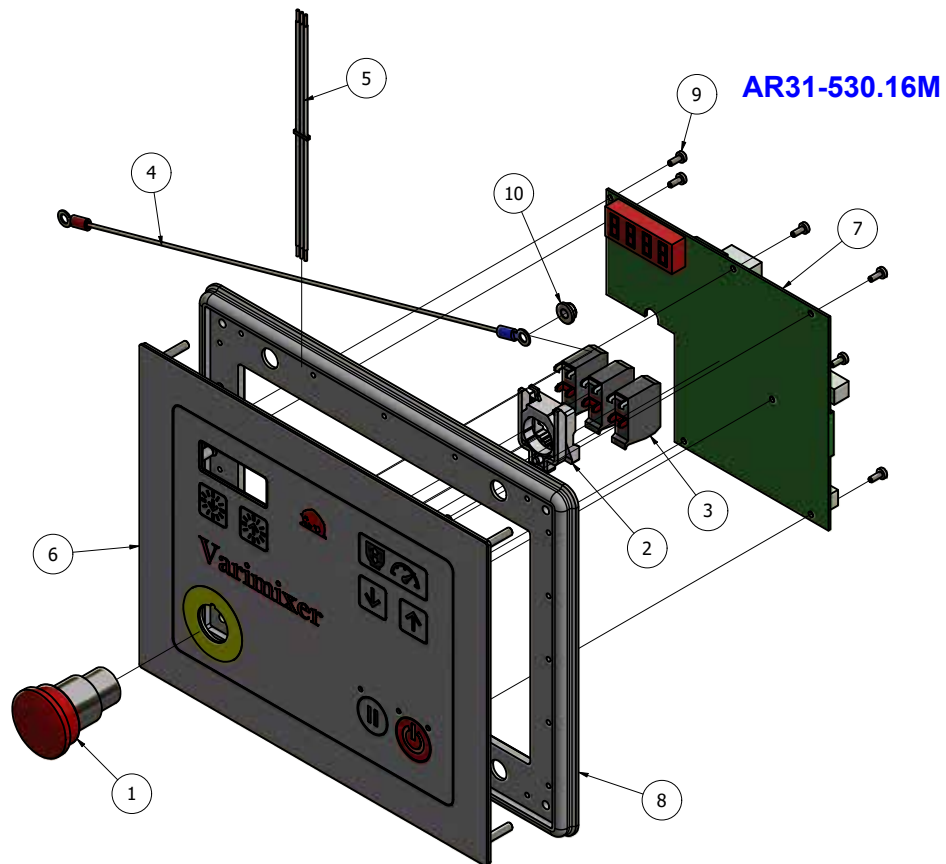
FIG NO.	ORDER NO.	DESCRIPTION
1	AR31-174.35.....	Switch emergency stop
2	AR31-174.36.....	Switch mounting Collar
3	AR31-174.37	Switch contact block
4	AR31-194.41M	Grounding cable
5	AR31-194.82M	Supply cable
6	AR31-530.6.....	Front Panel
7	AR31-532.11	Control board
8	AR31-562	Gasket
9	STA5762	Screw
10	STA5897	Hex flange nut

ENCLOSURE BOX ASSEMBLY

FIG NO.	ORDER NO.	DESCRIPTION
1	AR31-418.9M.....	Enclosure
2	AR31-418.6.....	Enclosure cover
3	AR31-414.1	Power Supply
4	AR30-425.1.....	Electronic limit switch
5	AR31-194.58M.....	Wire harness
6	AR31-194.64M.....	Wire harness
7	AR31-194.86M.....	Wire harness
8	STA6161	Cable tie mount
9	*1) .. AR30E-430	Isolating transformer
10	STA3002	Cable gland
11	AR30-457	Screw terminal
22	*2)	Contactor
23	*2)	Thermal Overload Relay

..... *1) .. With isolating transformer, >380V without neutral

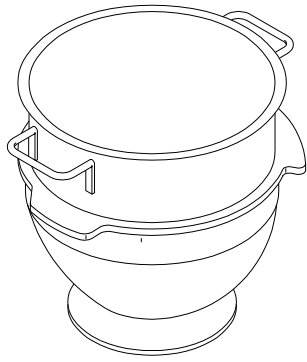
..... *2) .. See page 18



BOWLS AND MIXING TOOLS

FIG NO.	ORDER NO.	DESCRIPTION	
1	RN100-75M	A	100 Bowl
1	RN100-75BM	B	100/40 Bowl
1	RN100-75AM	C	100/60 Bowl
2	RN100-78M	A	100 Hook
2	RN100-78.5M	A	100 Hook, standard, double pin
2	RN100-78BM	B	100/40 Hook
2	RN100-78AM	C	100/60 Hook
3	RN100-27M	A	100 Beater, aluminium
3	RN100-27.5M	A	100 Beater, standard, aluminium, double pin
3	RN100-27.2M	A	100 Beater, stainless steel
3	RN100-27.6M	A	100 Beater, stainless steel, double pin
3	RN100-27BM	B	100/40 Beater, standard, aluminium
3	RN100-27B2M	B	100/40 Beater, stainless steel
3	RN100-27AM	C	100/60 Beater, standard, aluminium
3	RN100-27A2M	C	100/60 Beater, stainless steel
4	RN100-28M	A	100 Whip, standard
4	RN100-28.5M	A	100 Whip, standard, double pin
4	RN100-28MS	A	100 Whip, thicker wires
4	RN100-28.5MS	A	100 Whip, thicker wires , double pin
4	RN100-28MT	A	100 Whip, thinner wires wires
4	RN100-28.5MT	A	100 Whip, thinner wires wires, double pin
4	RN100-28BM	B	100/40 Whip, standard
4	RN100-28BMS	B	100/40 Whip, thicker wires
4	RN100-28AM	C	100/60 Whip, standard
4	RN100-28AMS	C	100/60 Whip, thicker wires
5	44RN100	A	100 Whip with reinforcement No. 44b
6	14RN100	A	100 Wing whip No. 14
6	14RN100B	B	100/40 Wing whip No. 14
6	14RN100A	C	100/60 Wing whip No. 14
7	39RN100	A	100 Powder mixer
8	42RN100P	A	100 Scraper with Blade (PA) and holder
8	42RN100PT	A	100 Scraper with Blade (PTFE) and holder
8	42RN100BP	B	100/40 Scraper with Blade (PA) and holder
8	42RN100BPT	B	100/40 Scraper with Blade (PTFE) and holder
8	42RN100AP	C	100/60 Scraper with Blade (PA) and holder
8	42RN100APT	C	100/60 Scraper with Blade (PTFE) and holder
9	42RN100-202	A	100 Scraper with Blade (PA)
9	42RN100-202T	A	100 Scraper with Blade (PTFE)
9	42RN100B-202	B	100/40 Scraper with Blade (PA)
9	42RN100B-202T	B	100/40 Scraper with Blade (PTFE)
9	42RN100A-202	C	100/60 Scraper with Blade (PA)
9	42RN100A-202T	C	100/60 Scraper with Blade (PTFE)
10	42R100-105		Scraper holder
11	42RN100-204	A	100 Blade (PA) for scraper
11	42RN100-204T	A	100 Blade (PTFE) for scraper
11	42RN100B-204	B	100/40 Blade (PA) for scraper
11	42RN100B-204T	B	100/40 Blade (PTFE) for scraper
11	42R60-204	C	100/60 Blade (PA) for scraper
11	42R60-204T	C	100/60 Blade (PTFE) for scraper
12	STA5652		Screw
13	STA6029		Washer
14	48R60Z		Rack for mixing tools
15	22RN100	A	100 Bowl truck
15a	22RN100B	B	100/40 Bowl truck
15a	22RN100A	C	100/60 Bowl truck
16	22R276	A	Bowl truck Handle
16a	22R277	B/C	Bowl Truck Handle (Downsize Bowl)
17	22R100-40	A	Bowl truck frame
17a	22R30-41	B/C	Bowl Truck Frame (Downsize Bowl)
18	22R140.5	A	Spacer
18	22R140.1-4W	B	Spacer
18	22R140.1	C	Spacer
19	STA5608		Hex socket set screw
20	22R30-520		Castor wheel
21	STA5642		Socket head screw
22	STA5676	A	Slotted set screw
22a	STA5675	B/C	Slotted set screw

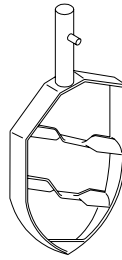
..... All materials Stainless steel,
 unless otherwise specified
 ** Adapted by mounting
 A..... Full size bowl
 B..... Size 100/40 bowl
 C..... Size 100/60 bowl



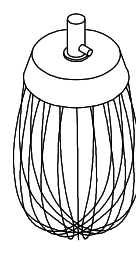
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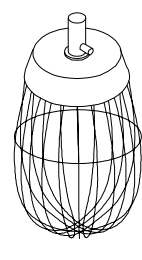
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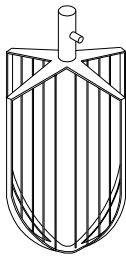
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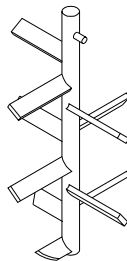
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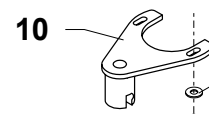
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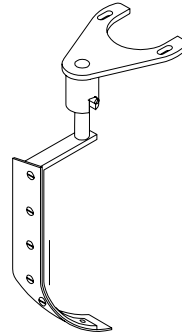
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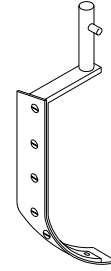
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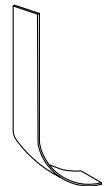
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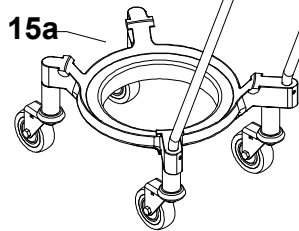
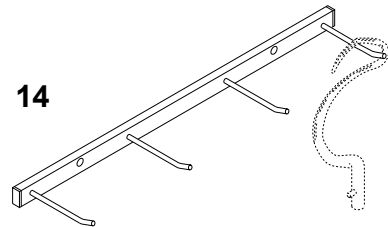


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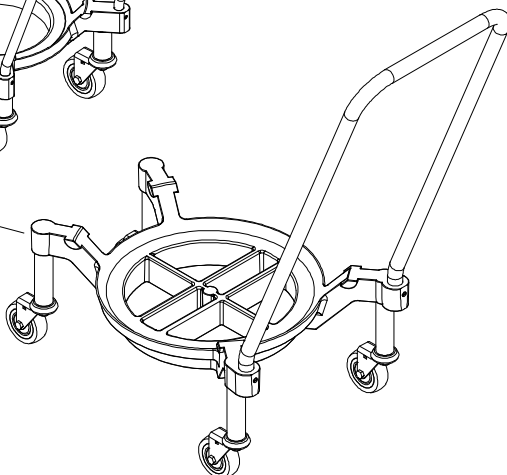
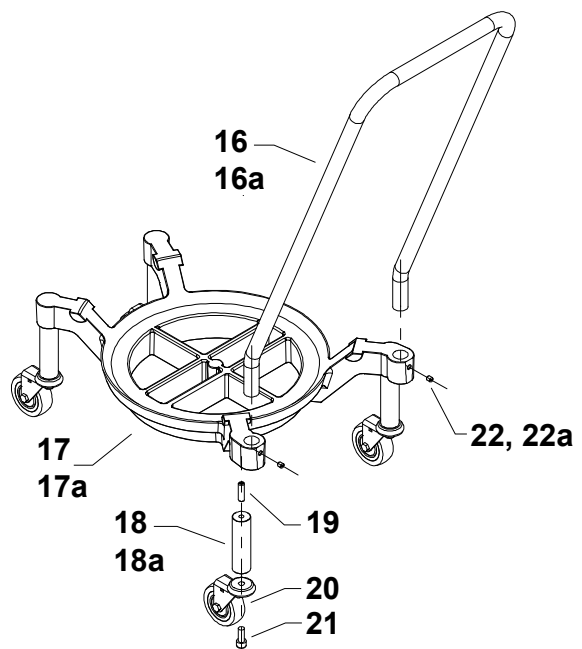
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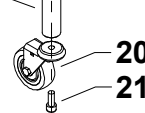


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